

IN THE CLAIMS:

Listing of Claims:

1. (Canceled)
2. (Currently Amended) The differential apparatus according to claim 1, A differential apparatus for distributing a rotational driving force from a transmission output shaft to a first driving wheel and a second driving wheel comprising:
a first driving shaft connected to the first driving wheel;
a second driving shaft connected to the second driving wheel;
a driven gear disposed on the first driving shaft; and
a driving gear which is positioned near the transmission output shaft to be meshed with the driven gear; wherein
adjacent tooth surfaces of the driving gear are formed to have different pressure angles from each other, and
a differential limiting force is generated by a meshing reaction force which is varied depending on a meshing direction of the driving gear, and said differential apparatus further comprising:
a differential case connected to the transmission output shaft;
a first driving gear which is housed in the differential case to be meshed with a first driven gear disposed on the first driving shaft;
a second driving gear which is housed in the differential case to be meshed with a second driven gear disposed on the second driving shaft; and
an intermediate gear which is integrally disposed on the second driving gear to be meshed with the first driving gear.
3. (Currently Amended) The differential apparatus according to claim 1, A differential apparatus for distributing a rotational driving force from a transmission output shaft to a first driving wheel and a second driving wheel comprising:
a first driving shaft connected to the first driving wheel;
a second driving shaft connected to the second driving wheel;
a driven gear disposed on the first driving shaft; and
a driving gear which is positioned near the transmission output shaft to be meshed with the driven gear; wherein

adjacent tooth surfaces of the driving gear are formed to have different pressure angles from each other, and

a differential limiting force is generated by a meshing reaction force which is varied depending on a meshing direction of the driving gear and said apparatus further comprising:

a carrier which is connected to the second driving shaft to rotatably support the driving gear; and

an intermediate gear which is integrally disposed on the driving gear to be meshed with an output gear disposed on the transmission output shaft.

4. (Canceled)

5. (Currently Amended) The differential apparatus according to ~~any one of claims 1 to 4~~ claim 2 or 3, wherein

a tooth surface of the driving gear for transmitting a rotational driving force in a drive mode is formed to have a larger pressure angle than that of a tooth surface to which the rotational driving force is transmitted during a coast mode.

6. (Original) The differential apparatus according to claim 2 or 3, wherein

the driving gear is formed in a cylindrical shape, and

a differential limiting force is generated by a radial meshing reaction force which is applied to the driving gear.

7. (Original) The differential apparatus according to claim 6, wherein

the differential limiting force is a frictional force generated in the driving gear and a housing bore of the differential case housing the driving gear.

8. (Original) The differential apparatus according to claim 6, wherein

the differential limiting force is a frictional force generated in the driving gear and a support shaft of the carrier supporting the driving gear.

9-13. (Canceled)

14. (Currently Amended) A differential apparatus for distributing a rotational driving force from a transmission output shaft to a first driving wheel and a second driving wheel comprising:

a first driving shaft connected to the first driving wheel;

a second driving shaft connected to the second driving wheel;

a driven gear disposed on the first driving shaft; and

a driving gear which is positioned near the transmission output shaft to be meshed with

the driven gear; wherein

adjacent tooth surfaces of the driving gear are formed to have different pressure angles from each other, and

a differential limiting force is generated by a meshing reaction force which is varied depending on a meshing direction of the driving gear, and said differential apparatus further comprising a differential case which houses therein the driving gear, and is connected to the transmission output shaft; wherein

the driving gear is meshed with both the first driven gear connected to the first driving shaft, and the second driven gear connected to the second driving shaft; and wherein

a friction generating member is disposed between the first driven gear and the differential case, and

a friction reducing member is disposed between the second driven gear and the differential case and ~~The differential apparatus according to claim 10, wherein~~

the friction generating member is a friction clutch.

15-19. (Canceled)